

Abstract of the Disclosure

A compound and method are provided for combining a chemotherapeutic drug with a polyion polymer for selective chemotherapy delivery. A glucose solution is combined with the polyion polymer, which allows the glucose solution and polyion polymer to be infused into a body containing cancer cells. The glucose solution is capable raising the pH level of cancer cells to a pH of 6.0 to 4.0. The polyion polymer reacts to different pH levels. The acidic environment of the cancer cell causes the polyion polymer to take on an "open line" form, thereby releasing the chemotherapeutic drug to selectively attack the cancer cells. In the neutral or low pH environment of healthy cells the chemotherapeutic drug is retained in an inactive form within the polyion polymer, which remains in the globular closed form, thereby leaving healthy tissue undamaged.